

December 5, 1963

Dr. Arthur B. Callahan Blo-Dynamics, Incorporated I Main Street Cambridge, Massachusetts

Dear Dr. Callahan:

I am returning herewith the completed questionnaire which accompanied your letter of October 21.

Since you have perhaps not seen it, I am also enclosing a copy of the report of the President's Science Advisory Committee on "Science, Government, and Information" which I am sure you will find of interest in relation to your study.

Sincerely yours,

Joshua Lederberg Professor ofGenetics

52.

Questionnaire

- At how many domestic scientific meetings have your NASA sponsored research results been presented?
 At how many foreign scientific meetings have your NASA
 Y
- 3. At how many specialized conferences and symposia have your NASA sponsored research results been presented?
- 4. Are financial arrangements with NASA adequate for attendance at sufficient foreign and domestic meetings?

sponsored research results been presented?

Domestic	Meetings	Foreign Meetings				
yes	no	yes no				
V						

- 5. In how many books have the results of your NASA sponsored research appeared?
- 6. In what commercial publications (e.g., magazines, newspapers, house organs, etc.) have results of your NASA sponsored research appeared?
- 7. In what scientific journals? Science

 Proc Not Frod Sai
- 8. Would you please indicate the title, reference, and estimated number of reprint requests of your papers published in open literature under NASA sponsorship. (Include domestic and foreign scientific journals.)

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(8 continued) <u>Title</u>	Reference	Requests for Reprints
Microenvironments for Life on Mars	Proc. Nat. Acad. Sci. <u>48</u> :1473-75.	125

9. Of the total number of requests for reprints received is it possible to estimate the number which originated in specific disciplines, e.g., chemistry, physics, medicine, biology, etc.

No

10. What is the estimate of the average time lag between submission of a paper and publication?

		Time Lag in Months				ıs	
Journal	3	6	9	12	15	18	24
Science							
PNAS	~					_	
Cospon-Space Science		_			_	_	

ll. Outside of formal methods of scientific communications mentioned what additional techniques of scientific information dissemination do you consider important?

personal consultations

technical reports SASTIA

NASA

- 12. Do you consider these additional techniques more important, equally important or less important than the formal techniques listed?
- 13. Do you apply other NASA or USAF research development (theories or techniques)to your own research? (Could you give brief examples?)

Instrumentations chemistry of fluore planetary service

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14. Did the essential idea or techniques used in your research effort

	originate specifically from space program information?
	$N_{\mathcal{O}}$
15.	If answer to above is yes, could you give specific instance of origin (e.g., journal, report, etc.)
16.	Is the intent of your research effort directed specifically to the space program or do you feel the results will have general application in your academic discipline?
	about 50:50
17.	In what areas do you feel the research results would have use? Bioshimical instrumentation origin & synthesis of life Resumbnesses of computers
18.	With how many colleagues in your institution do you discuss your work? 20 How many hours per week? 30.
	Have these colleagues contributed sources of information with which you were unfamiliar and which contributed to your research? Level yes,
20.	to discuss informally with colleagues your mutual work? There a policy against
21.	How would you describe your library facility? (circle appropriate description) poor - (fair) - adequate - good - excellent.
	in relation to actual needs
	probably good compared to many other

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22. Would you please indicate with a check which of the following journals you regularly use as current information sources.

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Review of Scientific Instruments Journal of Chemical Physics

"Astrophysical Journal

+ Physical Review

American Rocket Society Journal Journal of Aerospace Sciences

Journal of Mathematical Analysis and Application

✓ Nature

Journal of American Mathematical Society

Journal of Geophysical Research

+ Electronics

Proceedings of the IRE

∠Science

Plant Physiology

American Journal of Physiology

American Journal of Botany

Journal of American Chemical Society

Aerospace Medicine

Annual Review of Psychology

EEG Journal

NASA Documents (including Scientific and Technical Aerospace Reports abstract journal).

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